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Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Ms. Diane C. Day Vice President, Regulatory Affairs, Clinical and Quality Applied Imaging Corp 120 Baytech Drive San Jose, CA 95134-2302

Re: k042542

Trade/Device Name: Applied Imaging CytoVision CEP XY

Regulation Number: 21 CFR 866.4700

Regulation Name: Automated Fluorescent In Situ Hybridization (FISH) Enumeration Systems

Regulatory Class: Class II

Product Code: NTH, MAO (unclassified)

Dated: September 17, 2004 Received: September 27, 2004

## Dear Ms Day:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k)

premarket notification. The FDA finding of substantial equivalence of your device to legally

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marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-3084. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <a href="http://www.fda.gov/cdrh/dsma/dsmamain.html">http://www.fda.gov/cdrh/dsma/dsmamain.html</a>

Sincerely yours,

Robert L. Becker, Jr., M.D., Ph.D.

Director

Division of Immunology and Hematology Devices
Office of In Vitro Diagnostic Device Evaluation and Safety

Center for Devices and Radiological Health

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Enclosure

## Indications for Use

510(k) Number (if known): k042542 Device Name: CytoVision™ CEP XY Indications For Use: The Applied Imaging CytoVision™ system is an automated scanning microscope and image analysis system. It is intended for in vitro diagnostic use as an aid in chromosomal analysis. CytoVision assists in the location of interphase and metaphase nuclei on standard microscope slides using both brightfield and fluorescent microscopy. This particular CytoVision software application is an accessory to the CEP® X Spectrum Orange™/CEP® Y Spectrum Green™ DNA Probe kit (Vysis, Inc. Downer's Grove, IL) and is limited to the analysis of CEP XY probes via high magnification capture and analysis of interphase nuclei. CEP XY is indicated for use to assess the effectiveness of bone marrow transplantation in opposite-sex transplants. Over-The-Counter Use \_\_\_\_\_ AND/OR (21 CFR 807 Subpart C) (PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF **NEEDED**) Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD) Office of In Vitro Diagnostic Device Evaluation and Safety 510K K042542

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